

Recovery Plan Action Status

Plan Name: James Spiny mussel

Plan Status: Final

Plan Date: 24-Sep-90

Lead Agency: USFWS

Lead Office: Virginia Ecological Services Field Office

(804)

693-6694)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
James spiny mussel (Pleurobema collina)	1	1	Conduct surveys for P. collina	Ongoing Current	FY 2000 - FY 2004		U.S. Forest Service, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources	Research: Population Surveys	Contract, Internal Technical Assistance	Surveys of known occupied habitat and formerly occupied habitat have been conducted since 2008. Continued surveys within the historic range are ongoing.
James spiny mussel (Pleurobema collina)	2	10	Seek support from land owners, local governments, and agencies	Ongoing Current	FY 2000 - FY 2004		U.S. Forest Service, The Nature Conservancy, Soil Conservation Service, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources, West Virginia Natural Heritage Program	Work type not yet selected	Labor type not yet selected	
James spiny mussel (Pleurobema collina)	2	11	Characterize habitat requirements	Ongoing Current	FY 1995 - FY 1999		Contract, Region 5, Fish and Wildlife Enhancement	Work type not yet selected	Labor type not yet selected	
James spiny mussel (Pleurobema collina)	3	12	Determine feasibility of re-establishing populations in historic range and, if feasible, introduce in areas of James River drainage	Ongoing Current	FY 2000 - FY 2004		Contract, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources	Research: Reintroduction	Internal Field Assistance, Species Expert	

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James spinymussel (Pleurobema collina)	3	13	Develop an educational program	Ongoing Current	FY 2000 - FY 2004		Contract , Virginia Department of Game and Inland Fisheries, Region 5, Fish and Wildlife Enhancement	Work type not yet selected	Internal Technical Assistance	At least one outreach event is conducted each year.
James spinymussel (Pleurobema collina)	3	14	Evaluate success of recovery activities and revise as necessary	Ongoing Current			Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources	Work type not yet selected	Labor type not yet selected	
James spinymussel (Pleurobema collina)	1	2	Investigate interactions with Asian clam	Not Started			Contract , Region 5, Fish and Wildlife Enhancement	Work type not yet selected	Labor type not yet selected	Same type of study called for in Tar Spinymussel Plan
James spinymussel (Pleurobema collina)	1	3	Continue to utilize existing legislation and regulations to protect species	Ongoing Current	Prior to FY 1995		U.S. Forest Service, U.S. Army Corps of Engineers, Soil Conservation Service , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, Virginia Water Control Board, West Virginia Department of Wildlife Resources	Work type not yet selected	Labor type not yet selected	
James spinymussel (Pleurobema collina)	1	4	Implement measures to control or slow down invasion of exotic bivalves	Ongoing Current	FY 2000 - FY 2004		Virginia Department of Game and Inland Fisheries, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources	Work type not yet selected	Labor type not yet selected	Except for development of regulations, cannot begin until 1.22 is completed

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James spinymussel (Pleurobema collina)	1	5	Provide long-term protection of essential habitats through acquisition, registry, management agreements, etc	Ongoing Current	FY 2000 - FY 2004		U.S. Forest Service, Soil Conservation Service , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, Virginia Division of Soil and Water Conservation, West Virginia Natural Heritage Program	Work type not yet selected	Labor type not yet selected	Funds principally for USFS land acquisition
James spinymussel (Pleurobema collina)	1	6	Conduct life history research	Complete	Prior to FY 1995	FY 2000 - FY 2004	Contract , USFWS Regional Office 4 - Atlanta	Work type not yet selected	Labor type not yet selected	Completed. Funded by R4
James spinymussel (Pleurobema collina)	1	7	Periodically monitor populations	Ongoing Current	FY 2005		Contract , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Fish and Wildlife Enhancement, West Virginia Department of Wildlife Resources	Work type not yet selected	Labor type not yet selected	Once every 5 years. August 2011 - South Fork Potts Creek monitoring conducted.
James spinymussel (Pleurobema collina)	2	8	Determine effects of siltation, pesticides, effluents	Ongoing Current	FY 2000 - FY 2004		Contract , Region 5, Fish and Wildlife Enhancement	Work type not yet selected	Labor type not yet selected	
James spinymussel (Pleurobema collina)	2	9	Encourage establishment of mussel sanctuaries and regulations to protect water quality	Ongoing Current	FY 2000 - FY 2004		Virginia Department of Game and Inland Fisheries, Region 5, Fish and Wildlife Enhancement, Virginia Water Control Board, West Virginia Department of Wildlife Resources	Work type not yet selected	Labor type not yet selected	Task can begin now, but cannot be completed until Task 1.1 is done